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## **ABSTRACT**

A method for producing highly unsaturated fatty acids comprising culturing a microorganism, belonging to the genus Mortierella and having resistance to a carbon source, in a medium having a carbon source concentration of at least 4% by weight, and collecting highly unsaturated fatty acids from the cultured products. Culturing the microorganism for about a week gives at least about 7 g/L of highly unsaturated fatty acids.